

Fig.1A

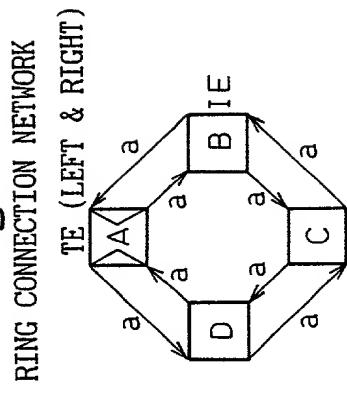


Fig.1B

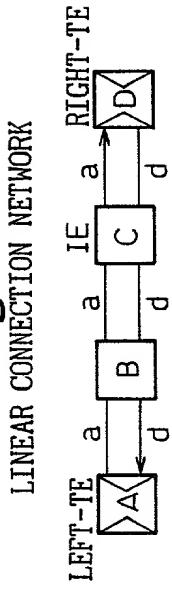


Fig.1C

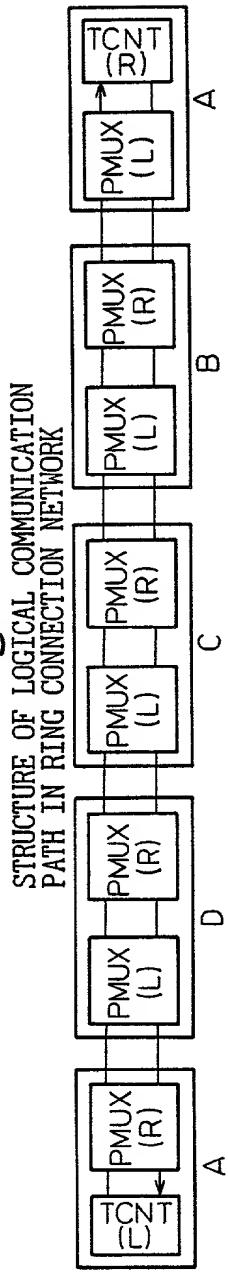


Fig.1D

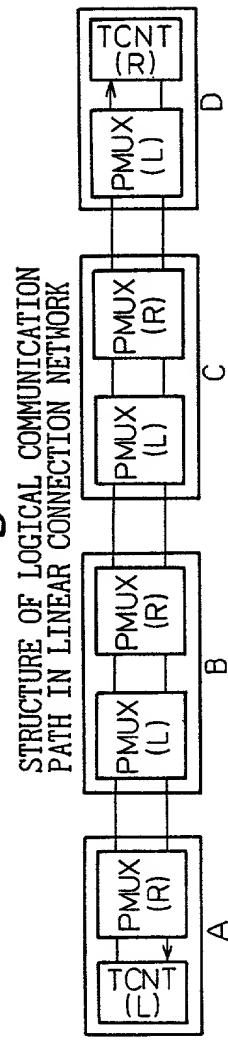


Fig.2A

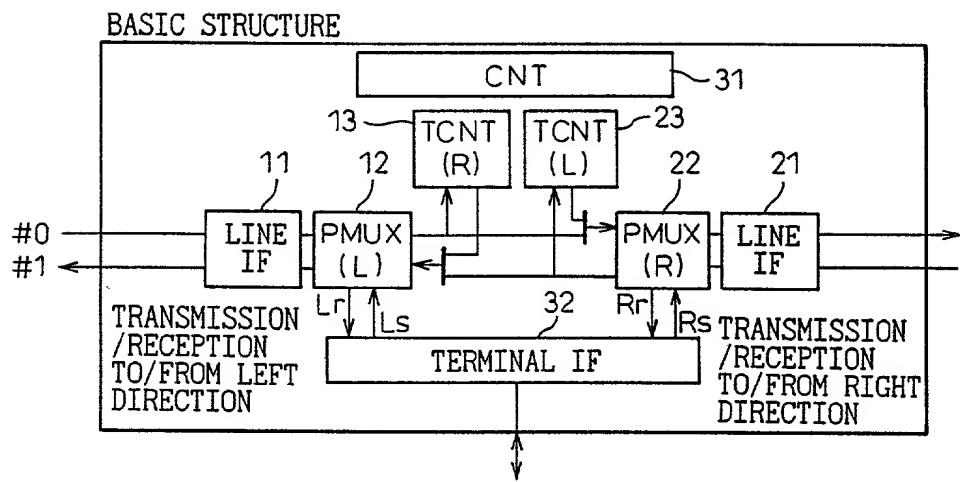


Fig.2B

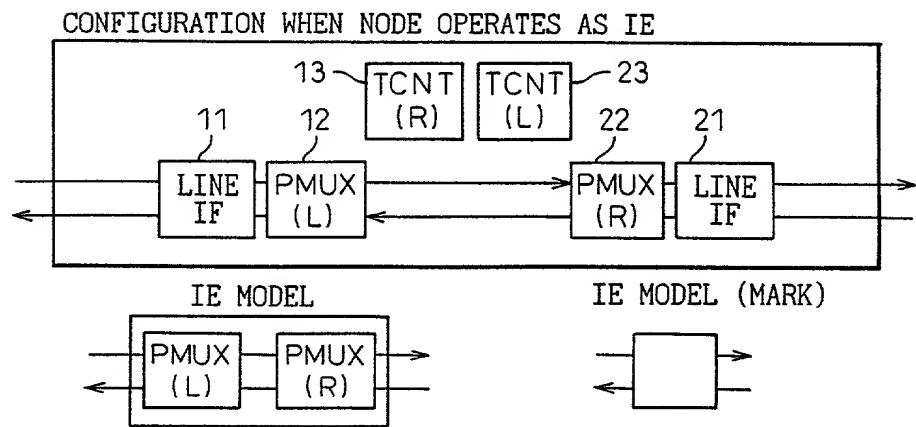


Fig.2C

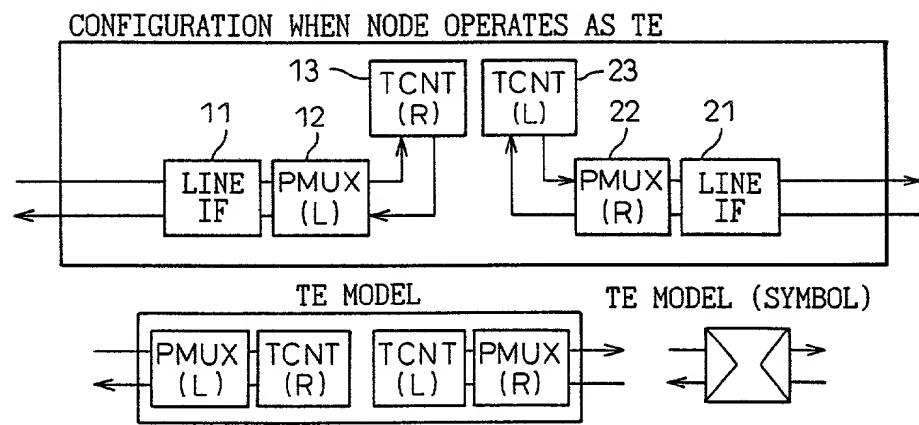


Fig.3A

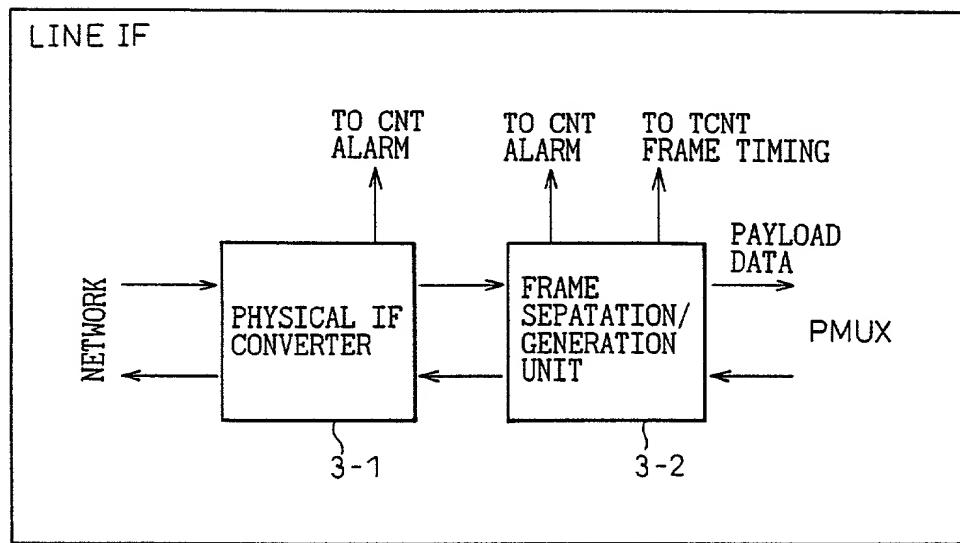


Fig.3B

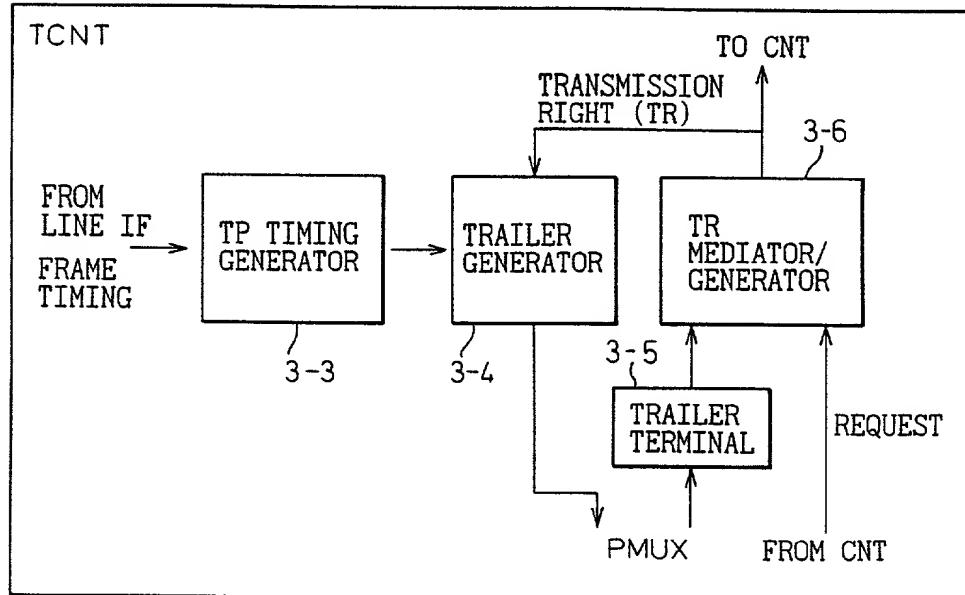
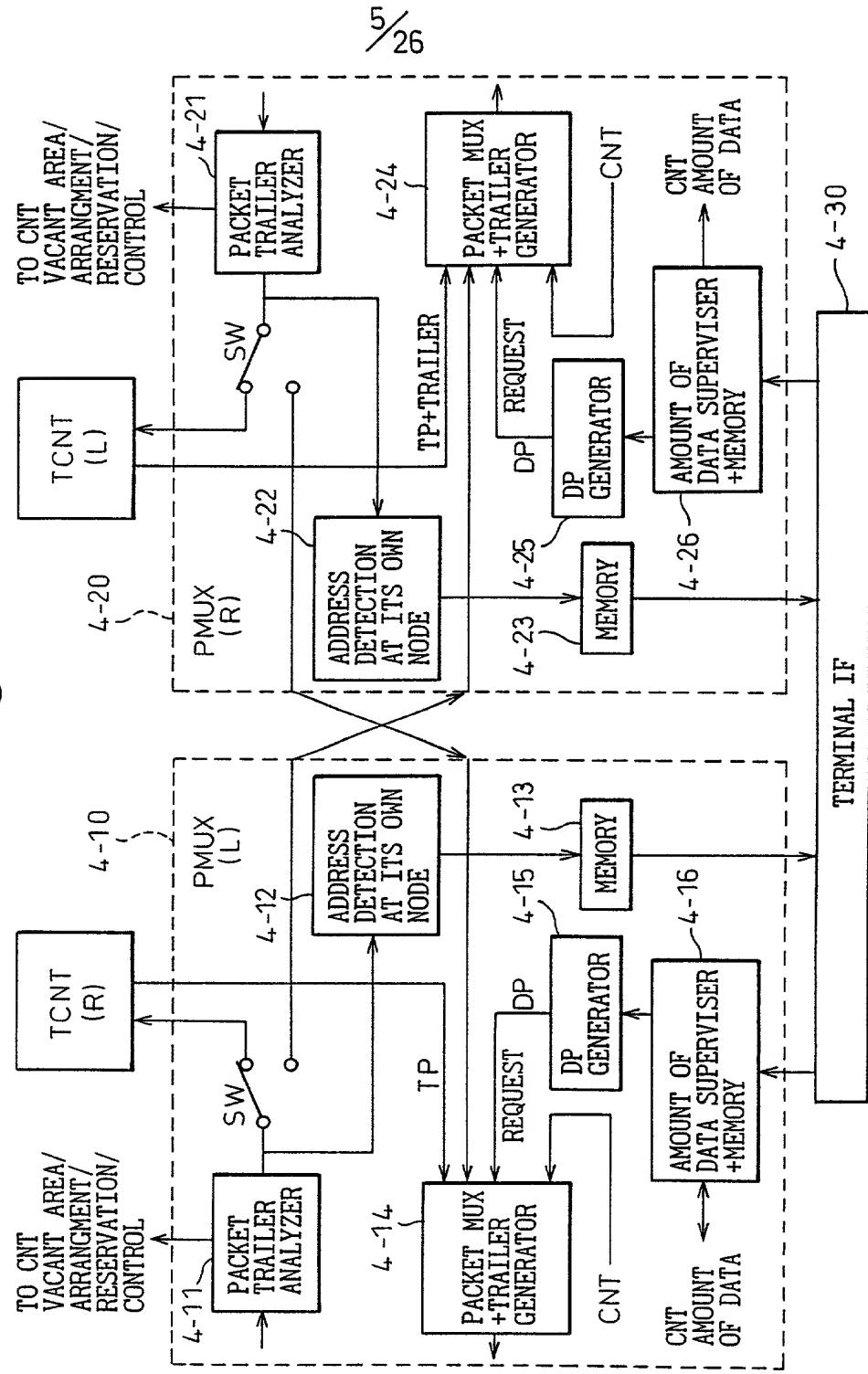


Fig. 4



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Fig.5

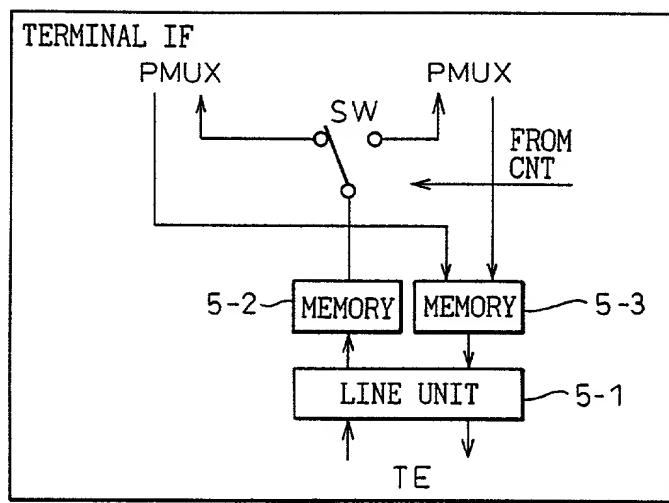


Fig. 6A

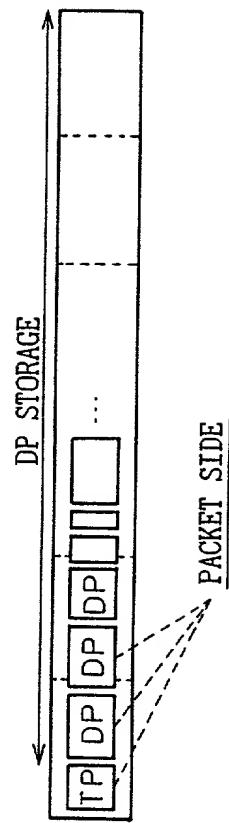


Fig. 6B



Fig. 6C

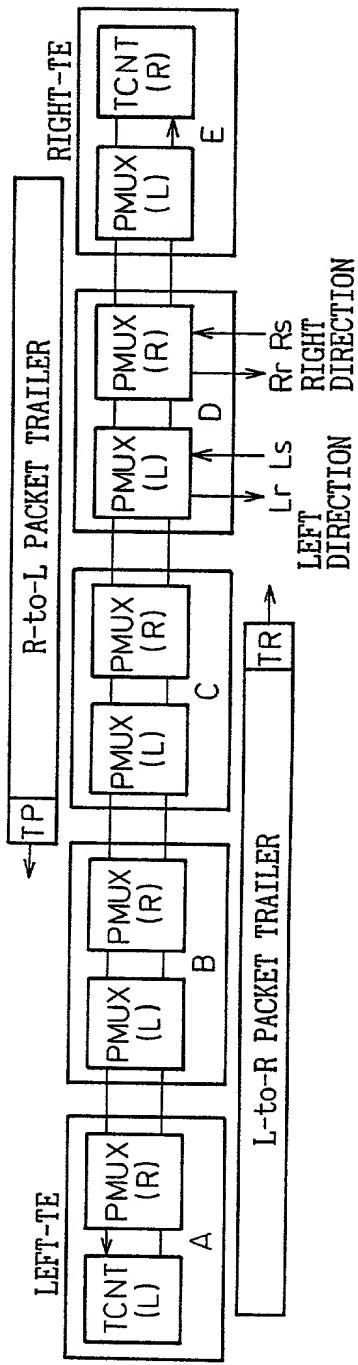
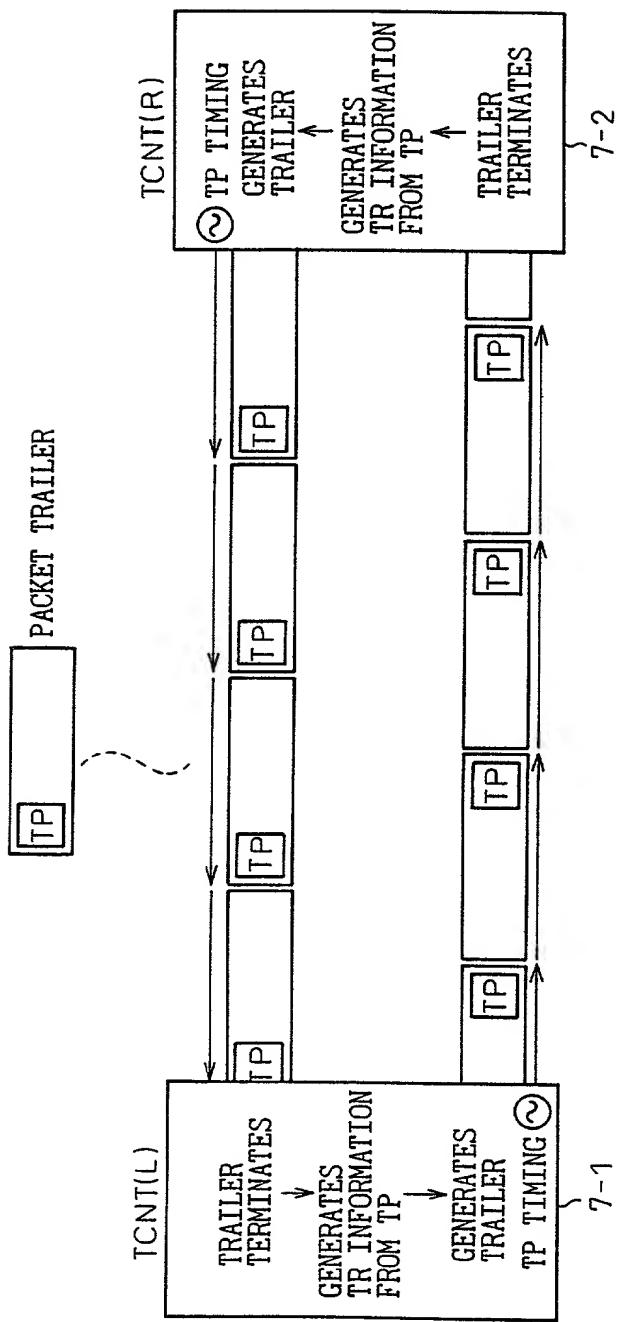


Fig. 7



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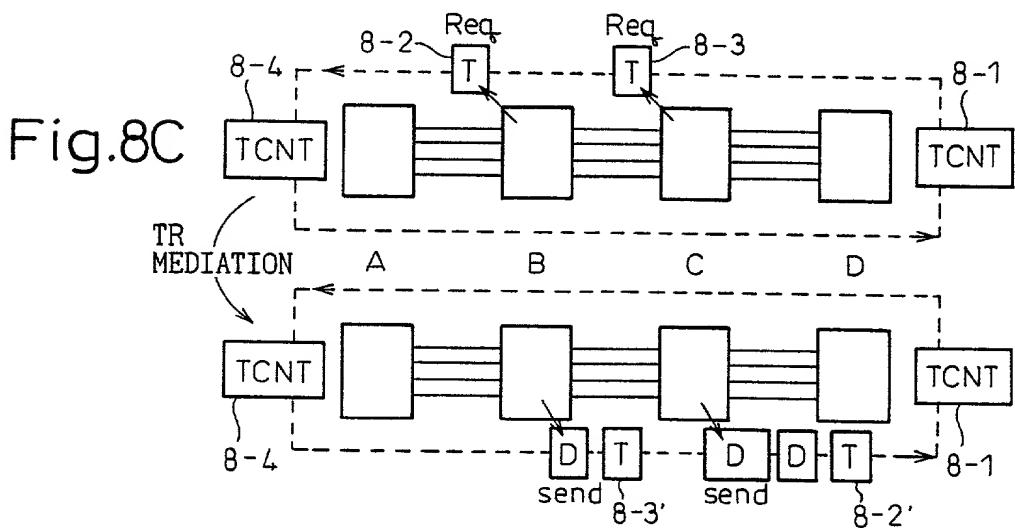
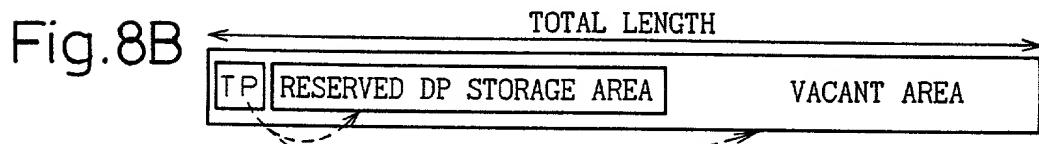
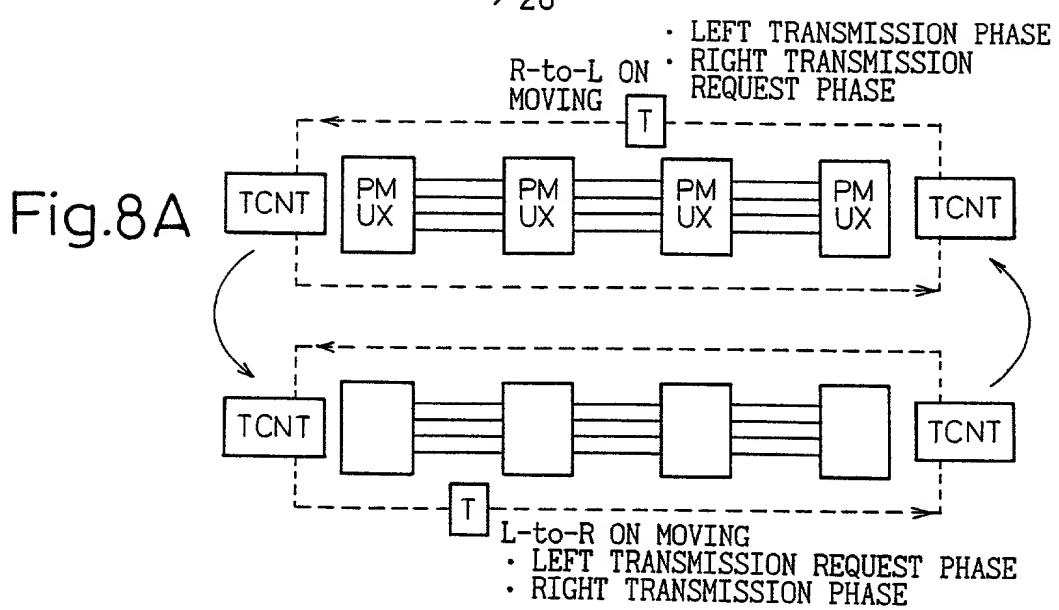


Fig. 9

STRUCTURE OF TOKEN PACKET

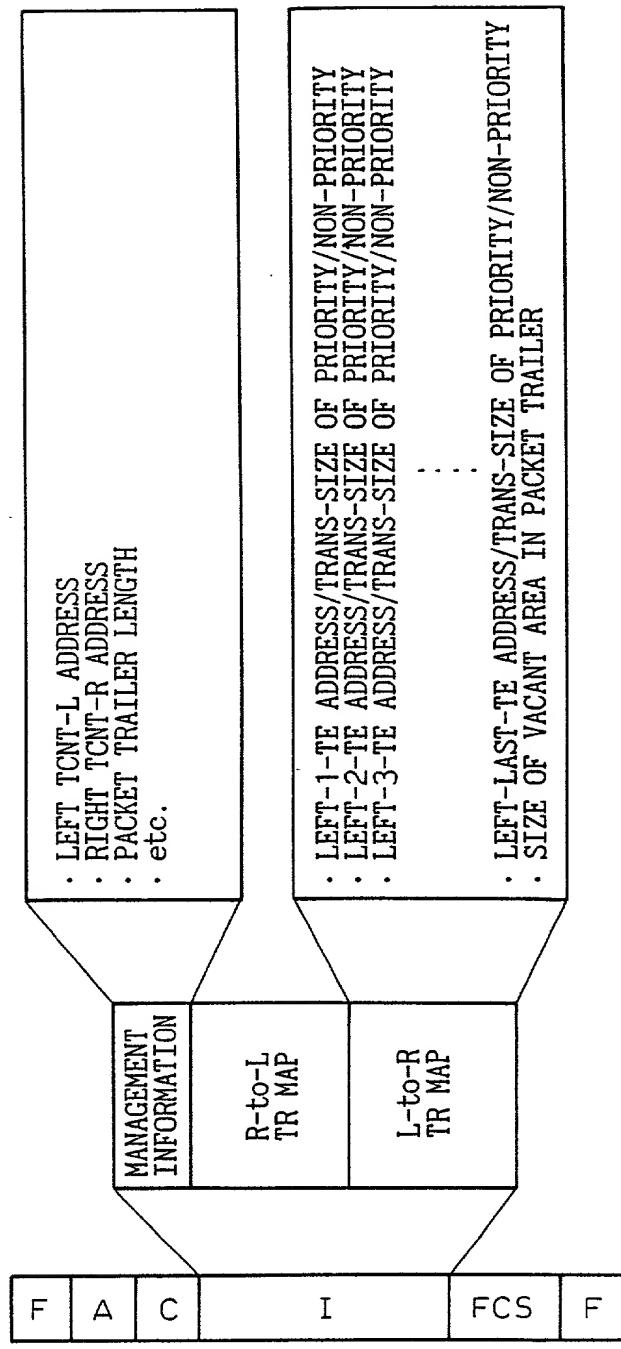


Fig.10

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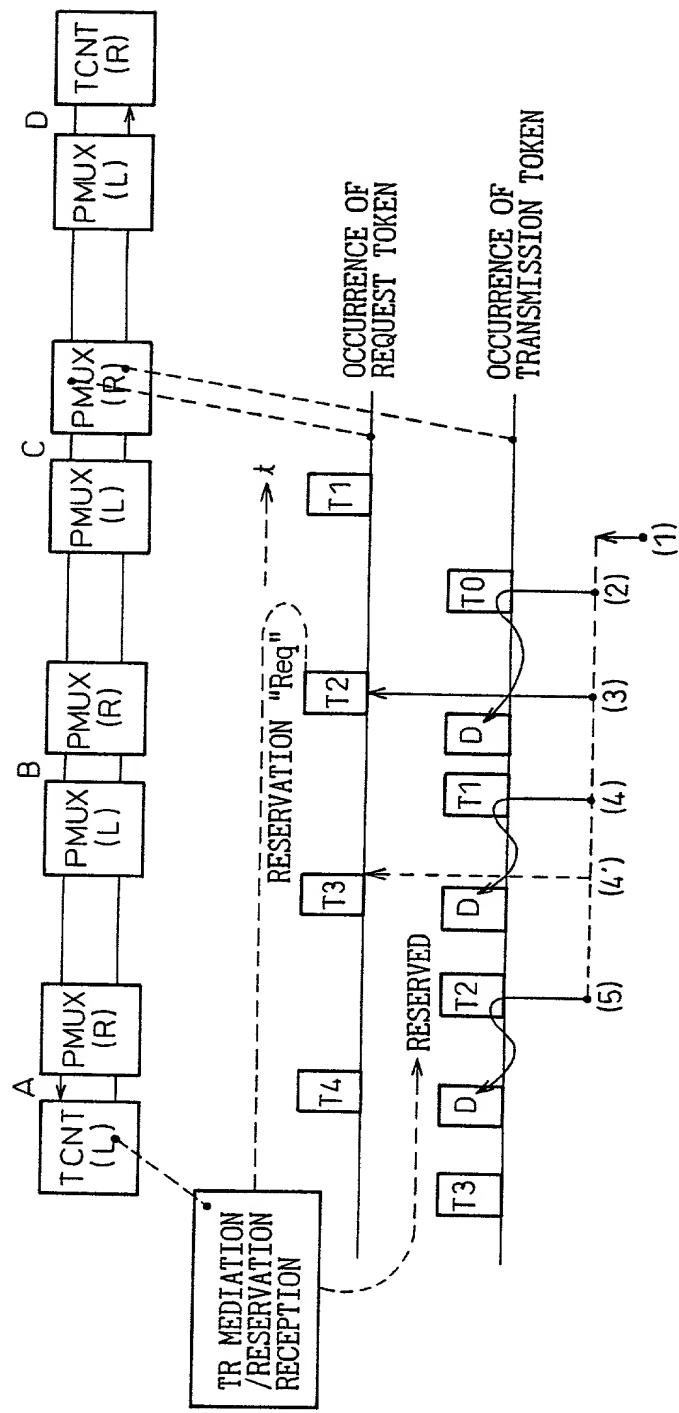


Fig. 11

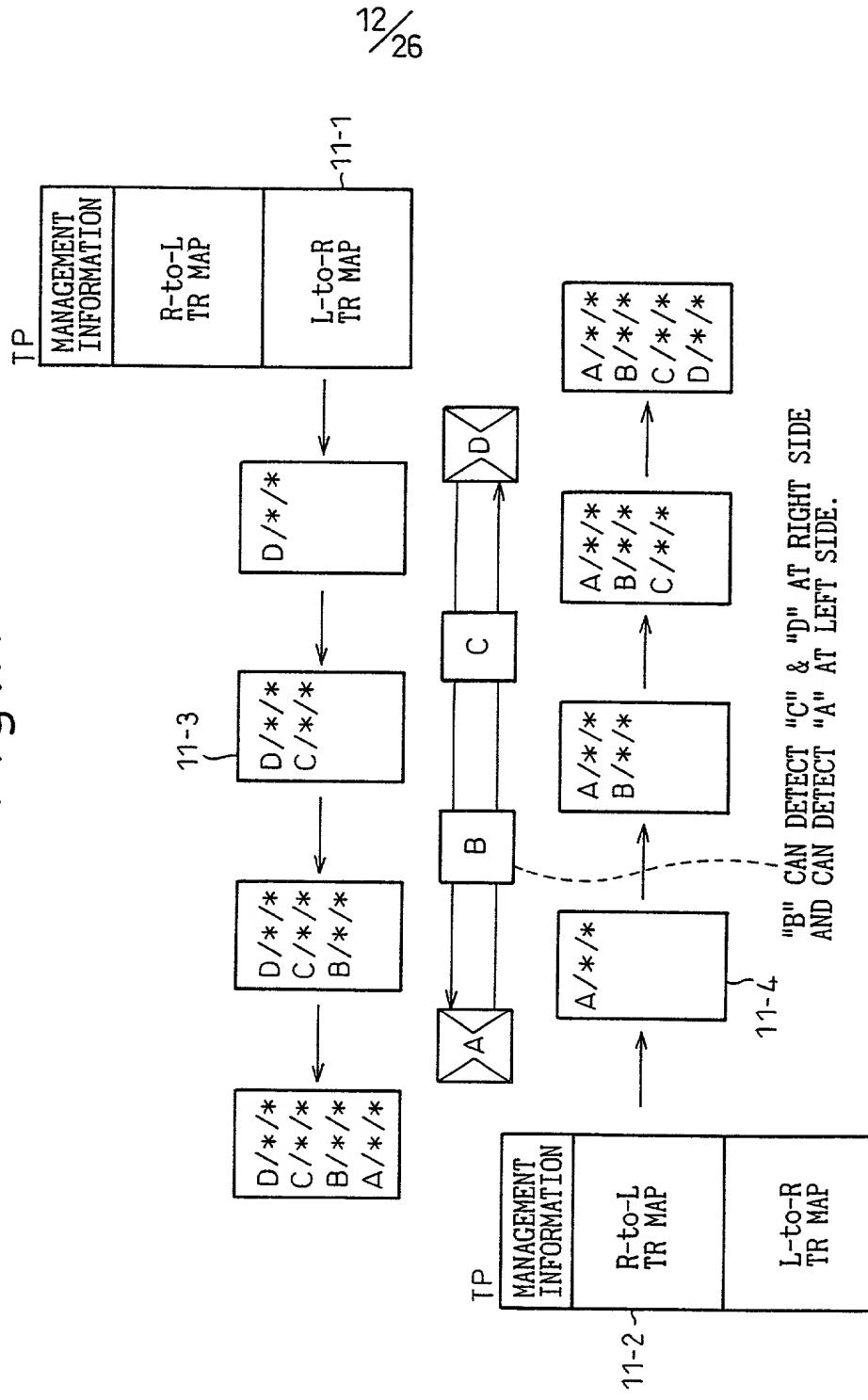


Fig. 12

In= #0	DATA FRAME HAS NOT ARRIVED	"MASTER-INFORMING" OF MASTER NODE "m" HAS ARRIVED	"MASTER-INFORMING" AND "MASTER-INVITING" OF MASTER NODE "m" HAVE ARRIVED
In= #1	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" TO LINES (#0, #1) (RAS-r1, RAS-r4)	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" TO LINE (#0) (RAS-r1, RAS-r4)	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" TO LINE (#0) (RAS-r1, RAS-r4)
		if $m=n \leq$ address of its own node then, node is changed to master, and transmits "master-informing" (RAS-r3) if $m=n$ address of its own node then, node is changed to slave (RAS-r3) if $m \neq n$ then, node is changed to slave (RAS-r2)	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" (RAS-r5, RAS-r7)
	"MASTER-INFORMING" OF MASTER NODE "n" HAS ARRIVED	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" AND "MASTER-INVITING" TO LINE (#1) (RAS-r1, RAS-r4)	NODE IS CHANGED TO "MASTER" AND TRANSMITS "MASTER-INFORMING" (RAS-r5, RAS-r7)

Fig.13A

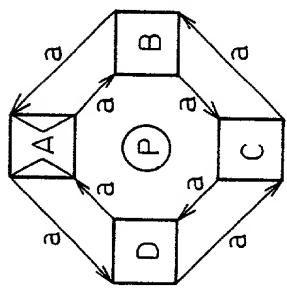


Fig.13B

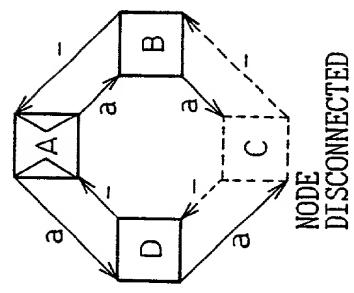
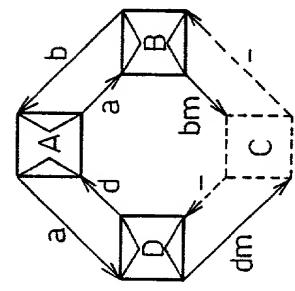
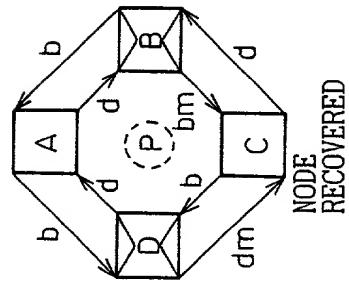


Fig.13C



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Fig.13E



NODE
RECOVERED

Fig.13G

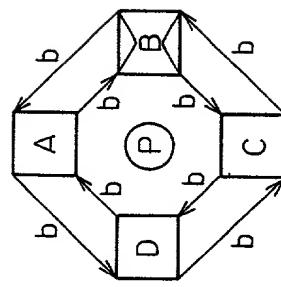
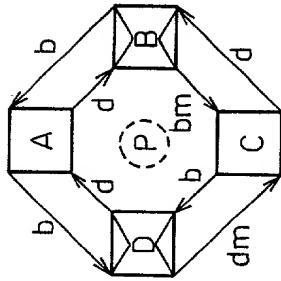
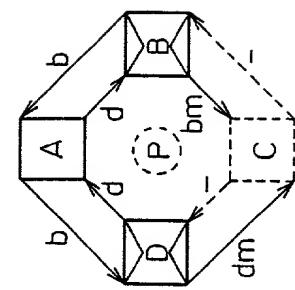


Fig.13F



NODE
DISCONNECTED



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Fig.14A

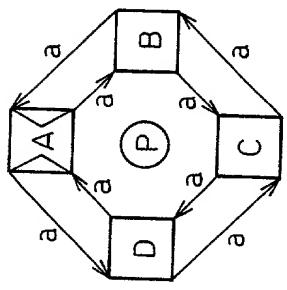


Fig.14B

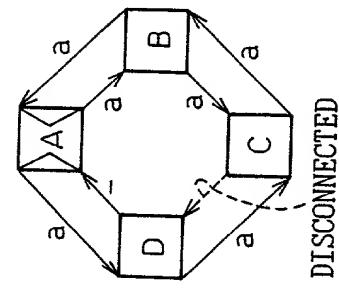


Fig.14C

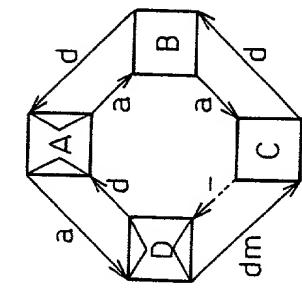
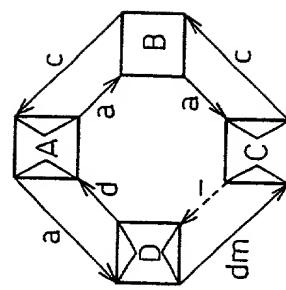


Fig.14D



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Fig.14E

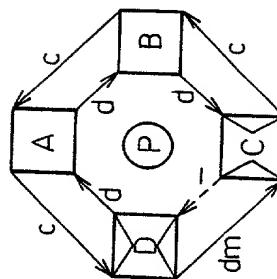


Fig.14F

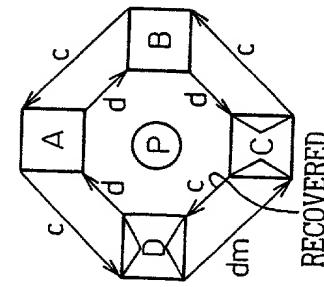


Fig.14H

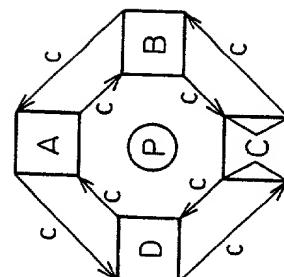


Fig.15A

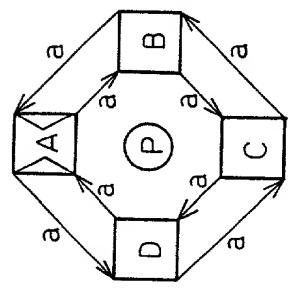


Fig.15C

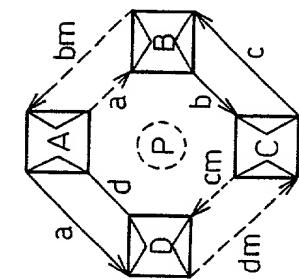
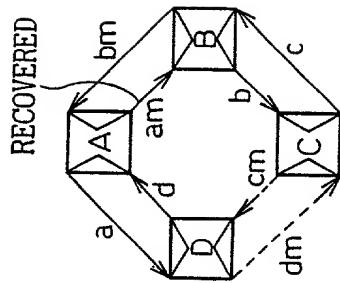
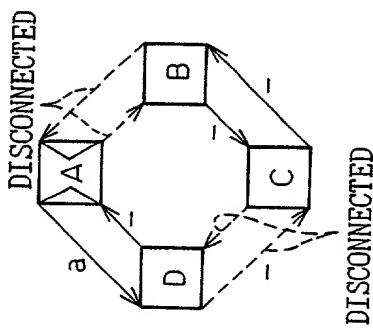


Fig.15D



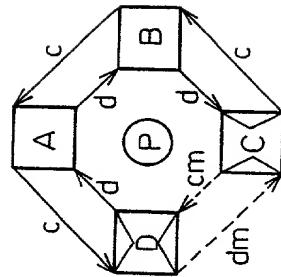
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Fig.15B



DISCONNECTED

Fig.15E



DISCONNECTED

Fig.16A

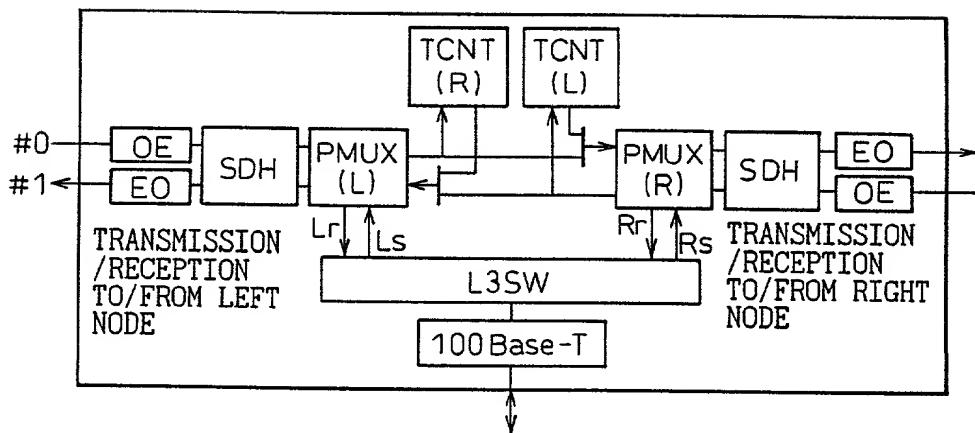
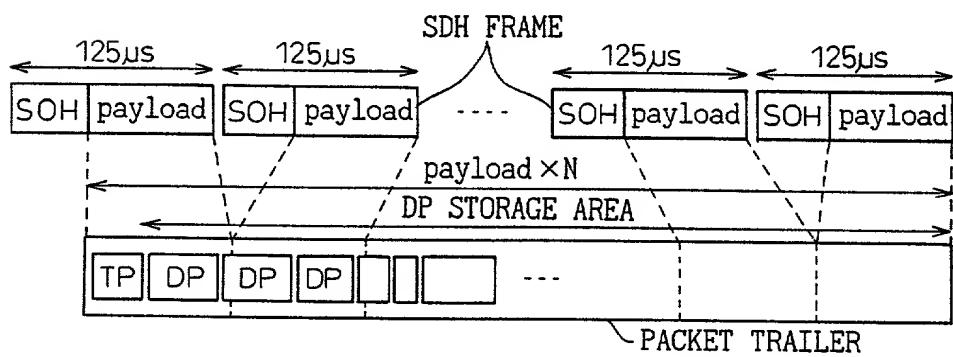


Fig.16B



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Fig.16C

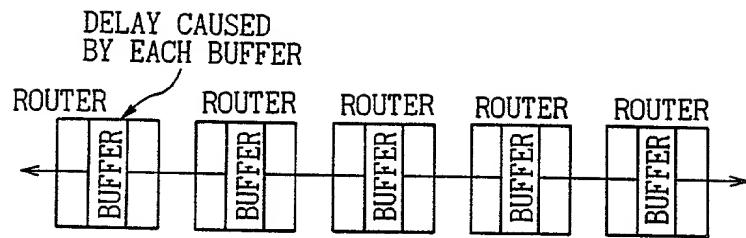


Fig.16D

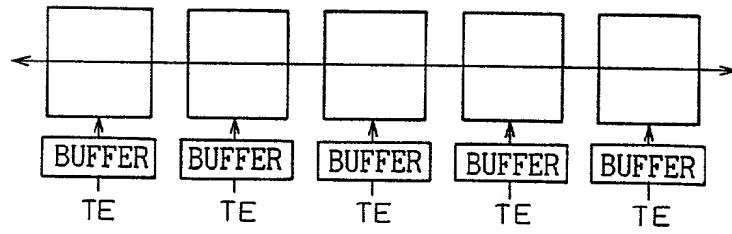


Fig.17A

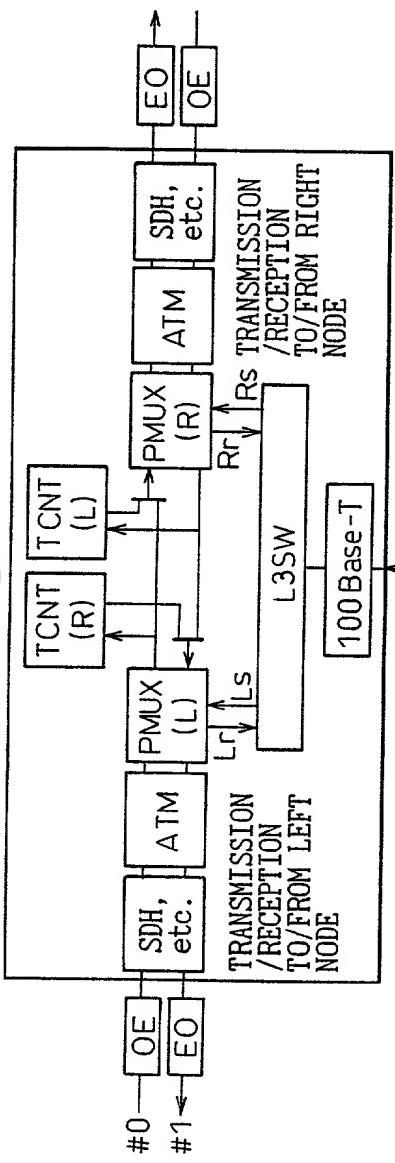


Fig.17B

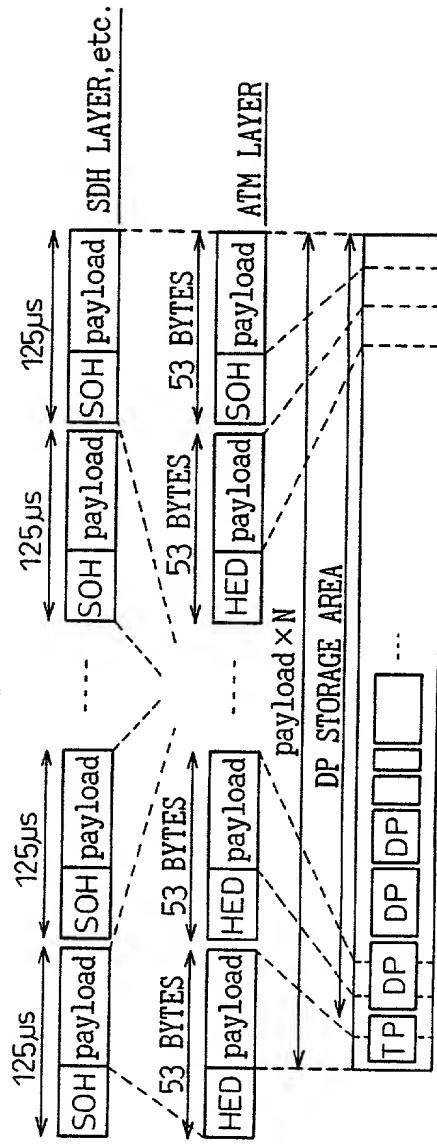


Fig. 18A

PRIOR ART
THE SAME DATA IS DELIVERED
ON LINES #0 AND #1 AND
SELECTED AT RECEPTION SIDE

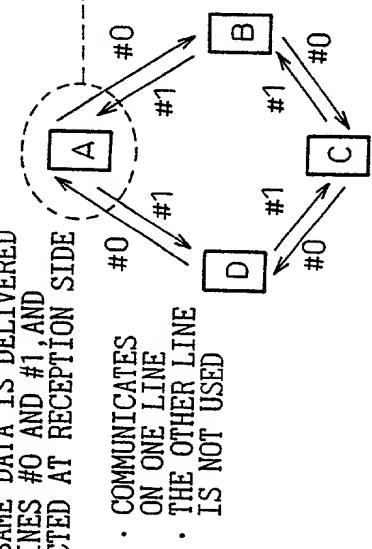


Fig. 18B

PRIOR ART

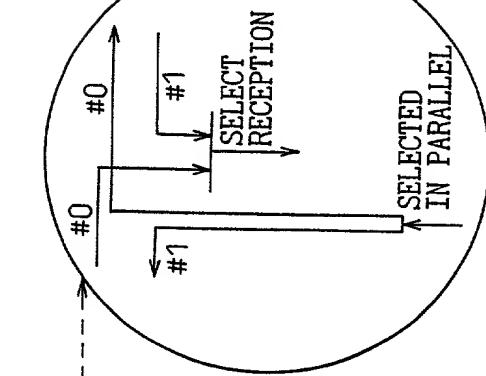


Fig. 18C

PRIOR ART

IN THE CASE OF DATA BEING
TRANSMITTED FROM NODE
"C" TO "A"

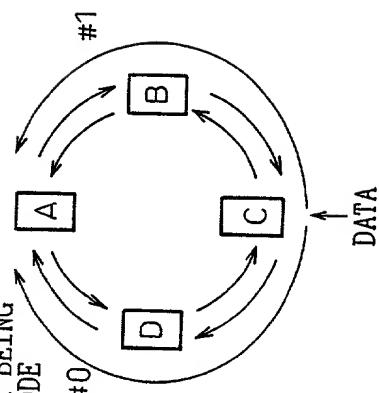


Fig.19A
PRIOR ART

LOOP-BACK CONNECTION
AT ABNORMAL STATE

USUALLY,
COMMUNICATED BY
ONLY LINE #0

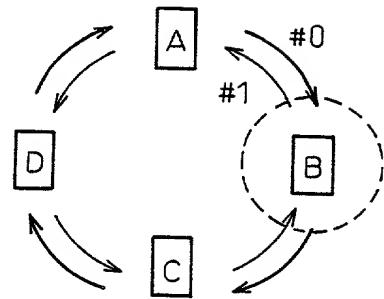


Fig.19B
PRIOR ART

IN THE CASE OF DATA BEING
TRANSMITTED FROM
"C" TO "A"

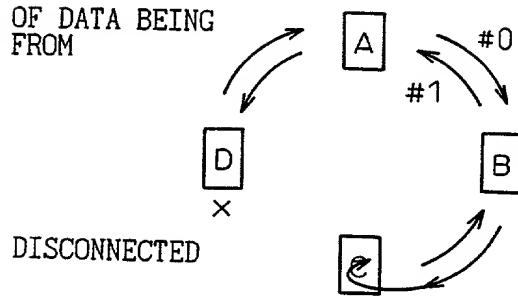


Fig.20A
PRIOR ART

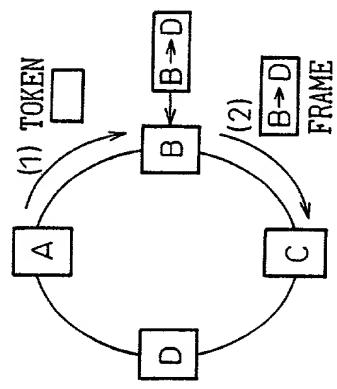
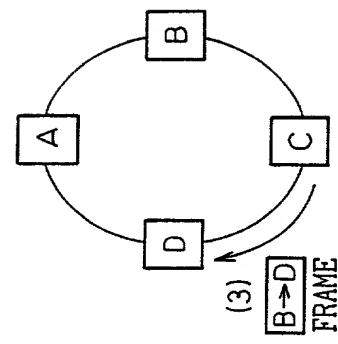


Fig.20B
PRIOR ART



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Fig. 20C
PRIOR ART

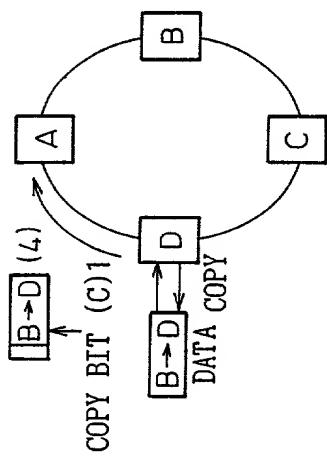


Fig. 20D
PRIOR ART

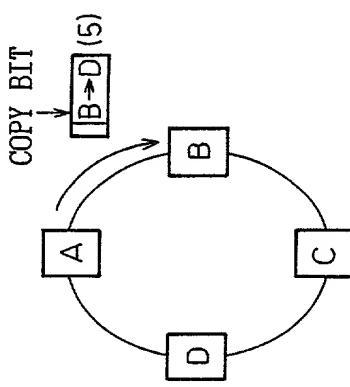
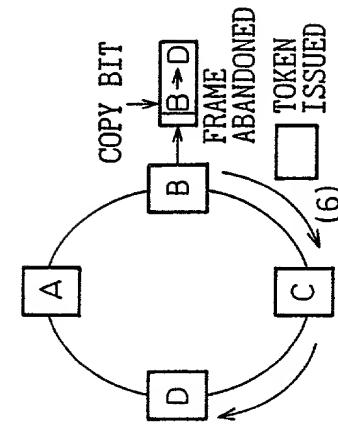


Fig. 20E
PRIOR ART



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Fig. 21A
PRIOR ART

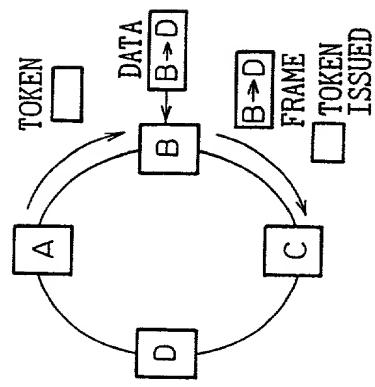
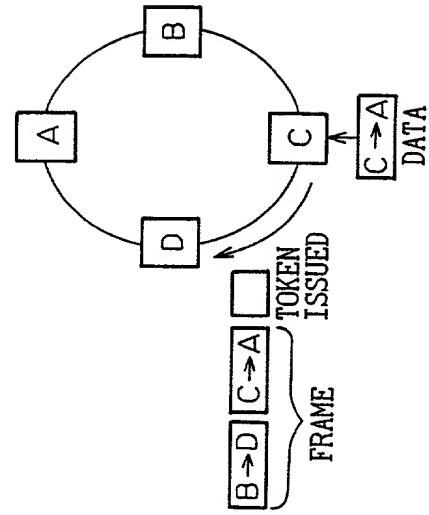


Fig. 21B
PRIOR ART



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Fig. 21 C
PRIOR ART

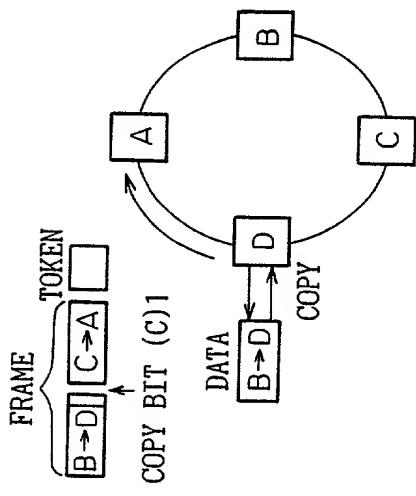
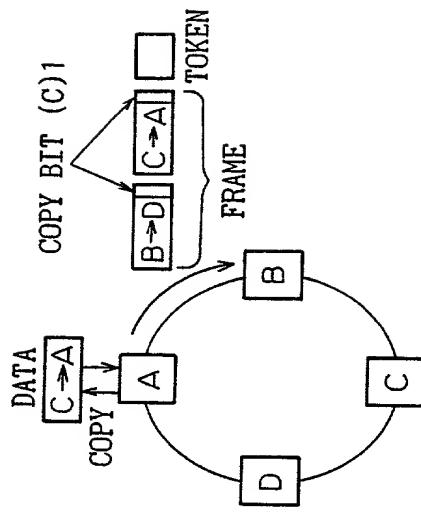


Fig. 21 D
PRIOR ART



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Fig.21E
PRIOR ART

